

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	14	("3936714" "4365132" "4434348" "4739685" "5685996" "6571672").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/28 15:28
S2	24	("2303720" "3176897" "3266701" "3708647" "3737614" "3823298" "3871062" "3873798" "4112289" "4116620" "4145593" "4177913").PN. OR ("4365132").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 15:45
S3	421	(sld\$3 or push\$3) near (tub\$3 or pip\$3) with weld\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 16:30
S4	5418	(sld\$3 or push\$3) near (tub\$3 or pip\$3) with (position\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 16:34
S5	54949	(sld\$3 or push\$3 or convey\$4) with (tub\$3 or pip\$3) with (position\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 17:02
S6	288	(sld\$3 or push\$3 or convey\$4) with (tub\$3 or pip\$3) with (position\$3) near (cut\$3 or weld\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 17:05
S7	23	("1928811" "2166608" "2735270" "2952944" "3098570" "3901043").PN. OR ("3163085" "3234352" "3241233" "4062456").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 17:12
S8	274937	(tub\$3 or pip\$3) with (roller\$4 or convey\$4 or sld\$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/28 17:16
S10	224433	(tub\$3 or pip\$3) with (roller\$4 or convey\$4 or sld\$4) and @ay<"2004"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/28 17:20
S11	29	((PETER) near2 (WIRTH)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/11/28 17:23
S12	614	(228/32,33,47.1).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/29 15:08
S13	306	(219/60A).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/29 15:09
S14	9434	"193".clas.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:29
S15	3476997	(tub\$3 or pip\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:29
S16	945	S14 and S15	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:29

S17	559729	(convey\$3 or slider or push\$3 or position\$3) with (tub\$3 or pip\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:36
S18	651	(convey\$3 or slider or push\$3 or position\$3) with (tub\$3 or pip\$3) same (orbital or butt) weld\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:37
S19	270579	(convey\$3) same (roller or guid\$4 or slid\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:51
S20	20450	(convey\$3) same (roller or guid\$4 or slid\$3) same (pip\$3 or tub\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:51
S21	92	("1021582" "2169624" "2597941" "2715958" "2813617" "2860766" "2873840" "2925166" "2948991" "3021939" "3063533" "3071236" "3245380" "3687706" "3964435" "4140216" "4166526" "4298043" "4358008" "4403688" "4448296" "4593807" "4676361" "4747480" "4869201" "5052543" "5450943" "5472080" "5944078" "6164431" "6170637" "6431343" "6913136" "7137501").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 15:58
S22	13	("0701024" "1021582" "3129805" "3812951").PN. OR ("4593807").URPN.	US-PGPUB; USPAT; USOOCR	ADJ	ON	2007/11/29 16:01
S23	171	(198/468.11).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/29 16:03
S24	10	("2968390" "3882792" "4170292" "4514133" "4612861" "4669249" "4834233" "5699896" "5816381").PN. OR ("6415910").URPN.	US-PGPUB; USPAT; USOOCR	ADJ	ON	2007/11/29 16:12
S25	16694	(pipe or tub\$3) near (hold\$3 or clamp\$3 or grip\$4)	US-PGPUB; USPAT; USOOCR	ADJ	ON	2007/11/29 16:25
S26	2	"4907732"	US-PGPUB; USPAT; USOOCR	ADJ	ON	2007/11/29 17:04
S27	11	("3598347" "3710475" "3744259" "3984007" "4286914" "4437218" "4591294" "4907732" "5050283").PN. OR ("4907732" "5230461").URPN.	US-PGPUB; USPAT; USOOCR	ADJ	ON	2007/11/29 17:08
S28	175	(198/300).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/29 17:09
S30	14493	pipe near guide	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 17:18

S32	32089	(convey\$3) near2 (pip\$3 or tub\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 17:21
S33	313	(convey\$3 or glid\$4 or guid\$4 or slid\$3) with (pip\$3 or tub\$3) same (orbital or butt) weld\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/11/29 17:21
S35	29	((PETER) near2 (WIRTH)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 07:46
S36	275389	(guide or roll or convey or slide) with (pip\$3 or tub\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 08:25
S37	46123	S36 and (positioning)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 08:26
S38	31	4750662"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 08:29
S39	7	"3256418"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 08:31
S40	14	"5165160"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 08:31
S41	34	"4145593"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 08:32
S42	66	("2737140" "2795689" "2832000" "3084244" "3088018" "3163743" "3267251" "3427428" "3483352" "3555239" "3618158" "3651290" "3668359" "3737614" "3777115" "3783232" "3838244" "3919037" "4019016").PN. OR ("4145593" "4176269").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 08:34
S43	4	"6355899"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 08:46
S44	11	"2463907"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 08:46
S45	18	"5052608"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 08:55
S46	3	(("5865430") or ("2167887") or ("3933292")).PN.	US-PGPUB; USPAT	OR	OFF	2007/12/03 08:56

S47	43	(["1774386" "1902051" "2127828" "2167887" "2433760" "2649632" "2846968" "3400872" "3414950" "3422519" "3571908" "3803703" "3894326" "3920232" "3979814" "4079493" "4586647" "4666138" "4750662" "5052608" "5118024").PN. OR ("2167887" "3933292" "5865430").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 08:56
S48	2434	(guid\$3 or convey\$4 or sild\$3) with (pip\$3 or tub\$3) near cut\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 08:58
S49	9	(["3613489" "4430913" "4608755" "4905552" "5553526" "5609081" "5860305" "5881616" "5894771").PN. OR ("6557227").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 13:16
S50	14	(["3191205" "3863528" "4430913" "4776247" "5335570" "5458031").PN. OR ("5894771").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 13:29
S51	678	orbital near (weld\$3 or fus\$3 or solder\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 13:46
S52	0	(["3936714" "4365132" "4434348" "4739685" "5685996" "6571672").PN"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 14:02
S53	0	(["3936714" "4365132" "4434348" "4739685" "5685996" "6571672").PN"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:02
S54	8	"5685996"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:04
S55	10	"4434348"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:04
S56	33	"4739685"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:05
S57	11	"4365132"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:06
S58	14	"3936714"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:07
S59	13	"6571672"	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	ADJ	ON	2007/12/03 14:08
S60	342	(219/57,59.1).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/03 14:14

S61	306	(219/60a).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/03 14:24
S62	685	(193/35r).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/03 14:33
S63	84	S62 and (pip\$3 or tub\$3 or conduit)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 14:34
S64	28943	"269".clas.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 16:51
S65	810	S64 and (gid\$3 or guid\$3 or slid\$3 or push\$3 or convey\$3) with (pip\$3 or tub\$3 or conduit)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 16:52
S66	9	("1349070" "2667978" "4470291" "4852623" "5673843" "5843369" "5934626").PN. OR ("7207555").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 17:05
S67	26	("0466929" "0793796" "1802914" "2568791" "3449992" "3481374" "3763733" "3805383" "3834019" "4051597" "4566190" "4821414" "4876793" "5179781" "5509440" "5611146" "5632089" "5737990" "5806187").PN. OR ("6553669").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 17:07
S68	4	("4176269" "5445309" "5975405" "6260270").PN. OR ("6398101").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 17:20
S69	12	("4084498" "4638756" "5099979" "5353910" "5829571" "5873566" "6231036").PN. OR ("6354581").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/03 17:21
S70	2	"6398101"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 07:48
S71	18	"3439431"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 08:06
S72	0	"4247082" "4250373" "4295820" "4297151" "4308235" "4323131" "4333635" "4345745" "4356362" "4379962" "4389039" "4422314" "4422471" "4438316" "4450014" "4463298" "4471516" "4533078" "4544139" "4573665" "4576380" "4579318" "4593887" "4601884" "4608754" "4620080" "4625949" "4760994" "4774983" "4870739" "4914271" "4924060" "4938455" "4939339" "4997322" "5175922" "5196071" "5218180" "5233154" "5265849" "5272900" "5288960"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 08:10

		5326955" "5339485" "5368538" "5373150" "5481080" "5695663" "5799878" "6109544"				
S73	50	("4247082" or ("4250373") or ("4295820" or ("4297151") or ("4308235") or ("4323131") or ("4333635") or ("4345745") or ("4356362") or ("4379962") or ("4389039") or ("4422314") or ("4422471") or ("4438316") or ("4450014") or ("4463298") or ("4471516") or ("4533078") or ("4544139") or ("4573665") or ("4576380") or ("4579318") or ("4593887") or ("4601884") or ("4608754") or ("4620080") or ("4625949") or ("4760994") or ("4774983") or ("4870739") or ("4914271") or ("4924060") or ("4938455") or ("4939339") or ("4997322") or ("5175922") or ("5196071") or ("5218180") or ("5233154") or ("5265849") or ("5272900") or ("5288960") or ("5326955") or ("5339485") or ("5368538") or ("5373150") or ("5481080") or ("5695663") or ("5799878") or ("6109544")).PN.	US-PGPUB; USPAT	OR	OFF	2007/12/04 08:10
S74	10	(*1852412" "2146959" "2623742" "3173979").PN. OR ("4345745").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 08:14
S75	161282	(roller or convey\$3 or slider or glider or pusher) with (pip\$3 or conduit or tube)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 08:37
S76	2477	(roller or convey\$3 or slider or glider or pusher) with (pip\$3 or conduit or tube) with (positioning or aligning)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 08:39
S77	4	(*3882299" "4050589" "4591294" "4999476").PN. OR ("7161115").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 08:54
S78	1091	(orbital or butt) near (weld\$3 or cut \$3 or solder\$3 or fus\$3) same (pip \$3 or conduit\$3 or tub\$3) same (convey\$3 or roller or slid\$3 or glid \$3 or guid\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 09:03
S79	809	(198/780,624).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/04 09:24
S80	135	S79 and (tub\$3 or pip\$3 or conduit)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 09:25
S81	13	(*3516539" "3990568" "4078592" "4640056" "4907632" "5417265").PN. OR ("5676238"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 09:28
S82	2781436	(conduit or pip\$3 or tub\$4 or elongat \$3 work\$1piece)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 09:57

S83	1170	rollers near1 ("adjacent" or next to or "near" or close to or parallel) near2 (clamp\$3 or guid\$3 or holder or slide\$1 or pusher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 10:01
S84	123	S82 same S83	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 10:02
S85	1678	(rollers or conveyor) near1 ("adjacent" or next to or "near" or close to or parallel) near2 (clamp\$3 or guid\$3 or holder or slide\$1 or pusher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 11:04
S86	681	S82 and S85	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 11:05
S87	544	orbital welder or butt welder	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 11:38
S88	1204	roller with stand with (pipe or tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/04 13:24
S89	160	S88 and grip\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/04 13:25
S90	26	("20030037841" "20030041711" "20030075033" "20030080267" "2586636" "3572620" "3602492" "4039178" "4094497" "4492354" "4715488" "4852623" "4903796" "5064156" "5247976" "5299656" "5664750" "6095319" "6179116" "6575213" "D360953" "D361390" "D432246").PN. OR ("6758449").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 13:43
S91	0	(*1402515").URPN.	USPAT	ADJ	ON	2007/12/04 13:50
S92	9092	(motor\$4) near rollers	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/04 13:57
S93	286	S92 with (tube or pipe)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/04 13:57
S94	517	(248/430).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/04 14:04

S95	395	v\$1shaped rollers	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB	ADJ	ON	2007/12/04 14:08
S96	26	("0977987" "2405810" "2740513" "3225945" "3917087" "4114749" "4781515").PN. OR ("5337875").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 14:14
S97	2	S96 and motor	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 14:14
S98	2	S96 and motor\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 14:15
S99	1	("0350645").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/04 14:16
S100	2	(("3936714") or ("6571672")).PN.	US-PGPUB; USPAT	OR	OFF	2007/12/04 14:16
S101	1	("3936714").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/04 14:17
S102	1	("6571672").PN.	US-PGPUB; USPAT	OR	OFF	2007/12/04 14:17
S103	76	clamp\$3 near (pip\$3 or tub\$3 or elongated workpiece or conduit) near (conveyor or rollers)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:17
S104	4441	(pip\$3 or tub\$3 or elongated workpiece or conduit) with (rollers) with motor\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:19
S105	13	("3516539" "3990568" "4078592" "4640056" "4907632" "5417265").PN. OR ("5676238"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 15:29
S106	690	193/35r	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:32
S107	189	S106 and motor\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:32
S108	41	("0736905" "1047490" "20020060139" "2828852" "3255865" "3351178" "3416638" "3763992" "4096942" "4148386" "4226608" "4241825" "4278166" "4311226" "4632575" "4787504" "4832184" "4872246" "4885059" "4887707" "4905817" "5048661" "5127513" "5582286" "5657854" "5875878" "5901830" "5906268" "5921370" "5964336" "6161681" "6302255" "6367617" "6685008" "6726003").PN. OR ("7243784").	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 15:33

		URPN.				
S109	15	S108 AND (CLAMP\$4 OR GRIP\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/04 15:49
S111	405	(198/780).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/04 15:58
S112	81	S111 AND (clamp\$3 or grip\$4 or slider or mover or holder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; IPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/04 15:58
S113	0	("2005/0121296").URPN.	USPAT	ADJ	ON	2007/12/04 16:00
S114	18	("3557925" "3713521" "3918561" "4082180" "5147020" "5442248" "5582286" "5642804" "6131717" "6244427" "6253909" "6467601" "6471043" "6577092" "6612422" "6766900" "6820736" "6837364").PN.	USPAT	ADJ	ON	2007/12/04 16:01
S115	77	S111 and (pip\$3 or tub\$3 or elongated workpiece or conduit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; IPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/04 16:18
S116	3177	(grip\$4 or clamp\$4 or slid\$4) with (pipe or tube or conduit or elongated work\$1piece) with conveyor	US-PGPUB; USPAT; USOCR; FPRS; EPO; IPO; DERWENT; BM_TDB	ADJ	ON	2007/12/04 16:43
S117	147	(228/32).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/04 16:45
S118	0	(219/60).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/04 16:48
S119	306	(219/60A).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/04 16:48
S120	10	"5223686"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 07:47
S121	8	("5223686" "5225647" "5386092" "5528011" "5582747" "5705783" "5914056" "6118095").PN. OR ("6392185").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 07:55
S122	18	"4379215"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 07:56
S123	1171	welding near (clamp or slider)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 08:09
S124	62791	(conveyor or rollers) with (clamp or grip\$4 or slider)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 08:10
S125	72789	(conveyor or rollers) with (slide or slider)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 08:12
S126	43792	(conveyor or rollers) with (push or pusher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 08:19

S127	16	(["3870849" "4379215" "4379215" "4417129" "4841115" "4857690" "4973823" "5136134" "5220144" "5223686" "5571431" "5710403" "5841089" "5844190" "6380505" "6459062" "7026568").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 08:30
S128	40667	"269".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:19
S129	161578	(slider or pusher or (moving or movable) clamp\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:21
S130	161578	(slider or pusher or (moving or movable) clamp\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:21
S131	1536	S128 and S130	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:21
S132	57469	(pusher)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:28
S133	244	S128 and S132	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:28
S135	1287	(pipe or tube) near (pusher or slider)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:34
S136	130606	"156".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:46
S137	2333968	(pipe or tube or conduit or elongated workpiece)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:47
S138	31312	S136 and S137	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:47
S139	2421893	(push\$3 or slid\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:48
S140	12327	S138 and S139	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 09:50
S141	1353	(156/304.1,304.2,304.3).OCLS.	US-PGPUB; USPAT	OR	OFF	2007/12/05 10:30
S142	209	S141 and (slide\$3 or glid\$3 or bring adj together)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 10:32
S143	781	(tube or pipe or elongated workpiece or conduit) with cutting torch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/12/05 13:34
S144	21	(["1826164" "2464901" "2497853" "2545666" "3388901" "3451666"].PN. OR ("4411410").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/05 13:47
S145	9	5484506"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:12
S146	1000	(orbital or pipe) near wel\$3 same (rollers)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:13

S147	119	(orbital or pipe) near weld3 same (rollers) with (portal or opening or ring)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:14
S148	0	(orbital or pipe) near weld3 same (rollers) with (portal or opening or ring)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:20
S149	0	(orbital or pipe) near weld3 same (roller) with (portal or opening or ring)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:20
S150	0	(orbital or pipe) near weld3 and (roller) with (portal or opening or ring)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:20
S151	0	(orbital or pipe) near weld3 with (roller)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:21
S152	0	(orbital or pipe) near weld3 same (roller)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:21
S153	889	(orbital or pipe) near (weld3 or cut \$4) same (roller)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:22
S154	277	(orbital or pipe) near (weld3 or cutt \$4) and (roller) with (portal or opening or ring)	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:22
S155	1	"6737801"	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:37
S156	16	("3870849" "4379215" "4379215" "4417129" "4841115" "4857690" "4973823" "5136134" "5220144" "5223686" "5571431" "5710403" "5841089" "5844190" "6380505" "6459062" "7026568").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:39
S157	46	("3238347" "3400237" "3461265" "3636294" "3668359" "3688069" "3726462" "3823298" "3828156" "3873798" "4009360" "4038509" "4161640" "4168406" "4179059" "4379215" "4480171" "4542276" "4698474" "4810848" "4841115" "4857690" "4868367" "4922073" "5075527" "5107090" "5126523" "5136134" "5196664" "5220144" "5223686" "5288963" "5302795" "5310982" "5571431" "5655699" "5674411" "5685996" "5710403" "5837966" "5841089" "5844190").PN. OR ("6380505").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/12/13 13:40

S158	36	((("20010017292") or ("2061671") or ("2139771") or ("2160586") or ("2317221") or ("2550641") or ("2831957") or ("2993983") or ("3219397") or ("3342973") or ("3349213") or ("3551636") or ("3582601") or ("3740520") or ("4144439") or ("4176269") or ("4179059") or ("4216896") or ("4283617") or ("4303623") or ("4306134") or ("4321448") or ("4322596") or ("4373125") or ("4396820") or ("4442340") or ("4807800") or ("4911209") or ("5059765") or ("5140140") or ("5214265") or ("5347101") or ("5532445") or ("6054667") or ("6150631") or ("6313426") or ("GB2058637") or ("GB2076560") or ("GB2257543") or ("JP1-205870") or ("JP1-205871") or ("JP1-289569") or ("JP5-169261") or ("JP53-95153") or ("JP55-84276") or ("JP56-31188") or ("JP57-134292") or ("JP57-5623") or ("JP6-126443") or ("JP60-148680").PN.	US-PPGUB: USPAT	OR	OFF	2007/12/13 13:44
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